SRP-2305N-36CC350-1050
DALI DT6 Dimmable Driver

PUSH DIM
LO → ODA
NO --- ODA

DA
DA
ACN/DC-
ACL/DC+

DALI INPUT INPUT

INPUT: 220-240V ∿ 0/50/60Hz 0.25A Max.
OUTPUT: 6-54V ⎓ 350-1050mA 36W Max.
Uout Max: 60V ⎓
Standby Power(W): <0.5W
ta: 45°C tc: 85°C λ:0.98   • tc

INPUT 0.75-2.5mm²
6-7mm
OUTPUT 0.5-1.5mm²
6-7mm

SELV

For LED Modules use only

LED OUTPUT + −

NFC

5 YEAR
WARRANTY

36W

Compact Constant Current LED Driver with DALI-2 NFC

Features of the:
SRP-2305N-36CC350-1050

CC Constant Current

PushDimming (VAC)

DALI 2 Protocol

IP20 Low level dimming with 0.1 Dimming

NFC Compatible

Class II Power Supply

IP20 SELV

Specification

| Model	SRP-2305N-36CC350-1050	
Output	DC Voltage Range	6 ~ 54V
	Rated current	350-1050mA via NFC setting; Min.current gear lower to 0.1mA, default 800mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated power	36W
Input	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.95@230VAC Full load
	Total Harmonic Distortion	THD ≤ 8% (@ full load / 230VAC)
	Efficiency (Typ.)	>85% @ 230VAC full load
	AC Current (Max)	0.2A @ 230VAC
	Inrush Current (Typ.)	Max. 5.64A at 230VAC; 72μs duration
	Leakage current	< 5mA/230VAC
	Standby Power Consumption	<0.5W
	Anti Surge	L-N: 2KV
Control	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push
	Dimming Range	0.01%-100% @Max current
	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional
Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
Environment	Working TEMP.	-25ºC ~ +45ºC
	Max. Case Temp	TC=85ºC
	Working humidity	10%-95% RH (non-condensing)
	Storage TEMP humidity	40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC	Safety standards	EN61347-1, EN61347-2-13
	Withstand voltage	I/P-O/P: 3.75KVAC
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25ºC/70% RH
	EMC emissions	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
Others	Size	145*45*28mm (L*W*H)
	Weight	0.20kgs
	Warranty	5 Years
Notes	1. DO NOT install with power applied to the device. 2. DO NOT expose the device to moisture.	

Mechanical Specification
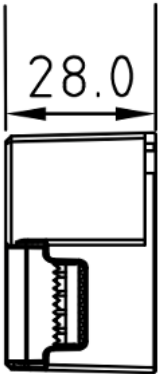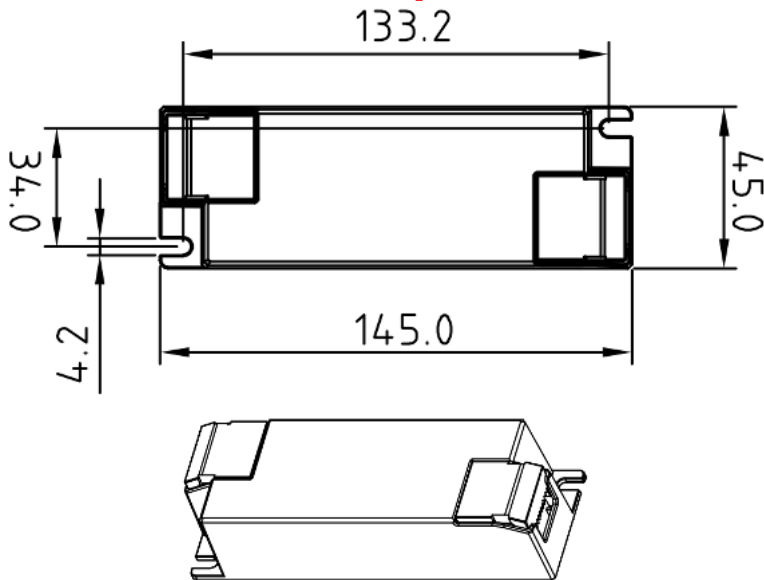
- Input Voltage Terminal: 2 pole terminal (same as the diagram)
- DALI or PUSH Dim Terminals: 2 pole terminals
- Output LED's: 2 pole terminal block: Positive (+), Negative (-)

DALI
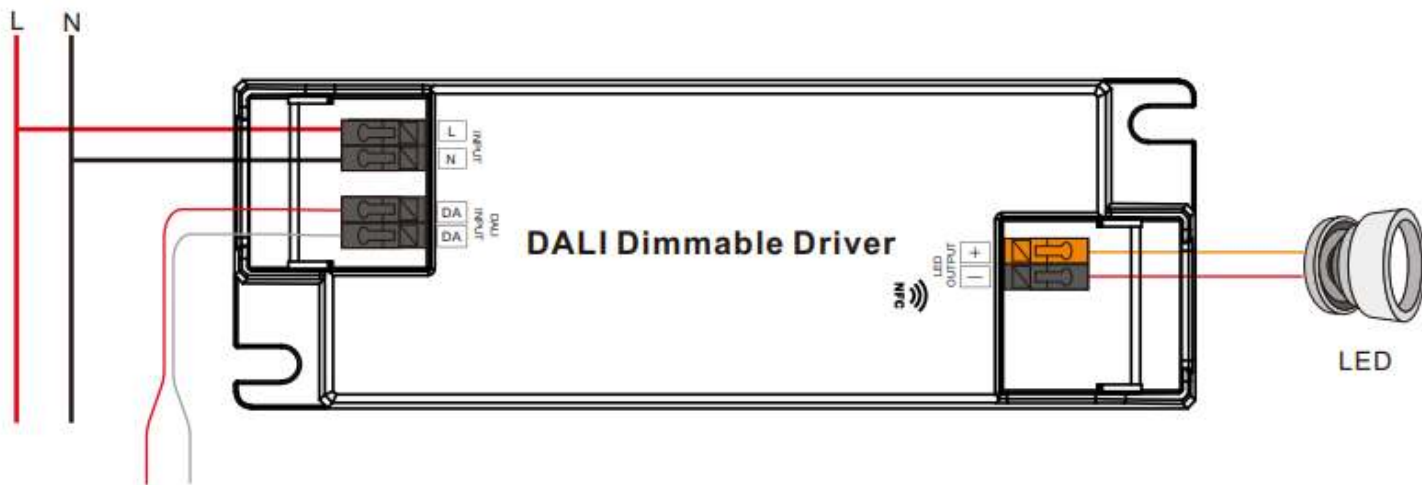
DALI Bus

Push Dimming
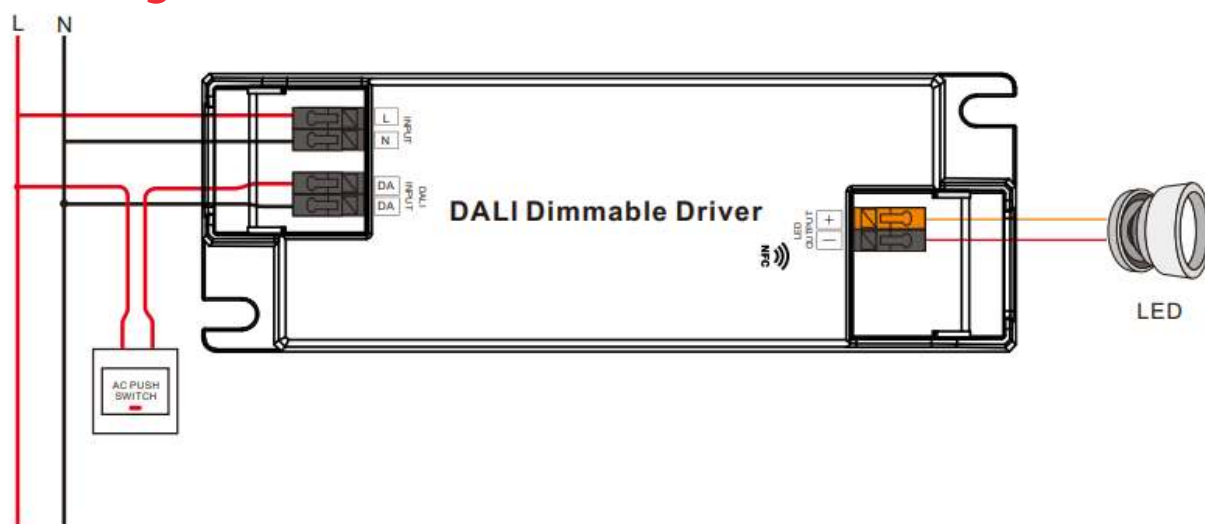
Operation

With DALI Master:

1. DALI Address
- 1 DALI address for 1 channel output are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations
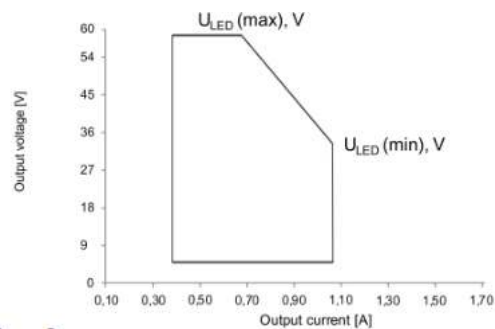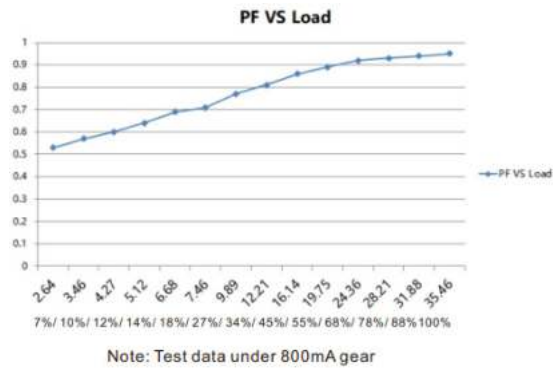
With NFC Programming Devices:

Note:
1. Do wiring according to the wiring diagram and power on the DALI system
2. Recommend setting parameters without power-on the DALI devices
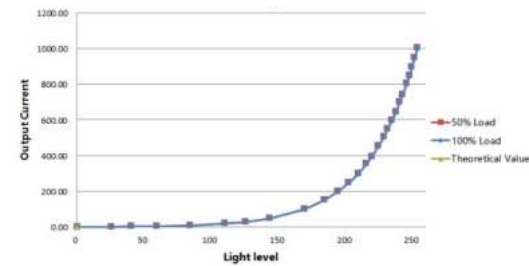3. Please make sure your mobile phone has NFC function and enable it

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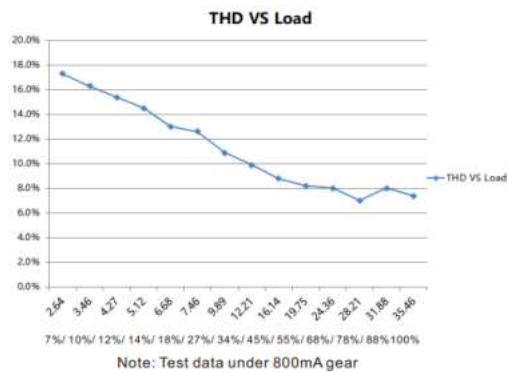
Wiring Diagrams & Dimming

Operating Window

Driver Performance

PF VS Load

7%/ 10%/ 12%/ 14%/ 18%/ 27%/ 34%/ 45%/ 55%/ 68%/ 78%/ 88%/100%

Note: Test data under 800mA gear

Dimming Curve

Driver Performance

THD VS Load

7%/ 10%/ 12%/ 14%/ 18%/ 27%/ 34%/ 45%/ 55%/ 68%/ 78%/ 88%/100%

Note: Test data under 800mA gear

Driver Performance

Efficiency VS Load

7%/ 10%/ 12%/ 14%/ 18%/ 27%/ 34%/ 45%/ 55%/ 68%/ 78%/ 88%/100%

Note: Test data under 800mA gear
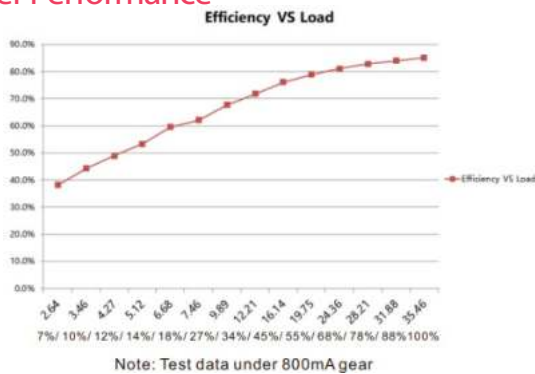
Expected Lifetime

Module Number	Output current				
		Ta	30 °C	40 °C	45 °C •••
SRP-2305N-36CC350-1050	350 – 1050 mA	Tc	50 °C	60 °C	66 °C ••• 85 °C
SRP-2309N-36CCT350-1050	350 – 1050 mA	Lifetime	> 100,000 h	> 100,000 h	> 100,000 h > 40,000 h

The LED driver is designed for a lifetime stated above under reference conditions .
The relation of tc to ta temperature depends also on the luminaire design.

MCB Load Quality

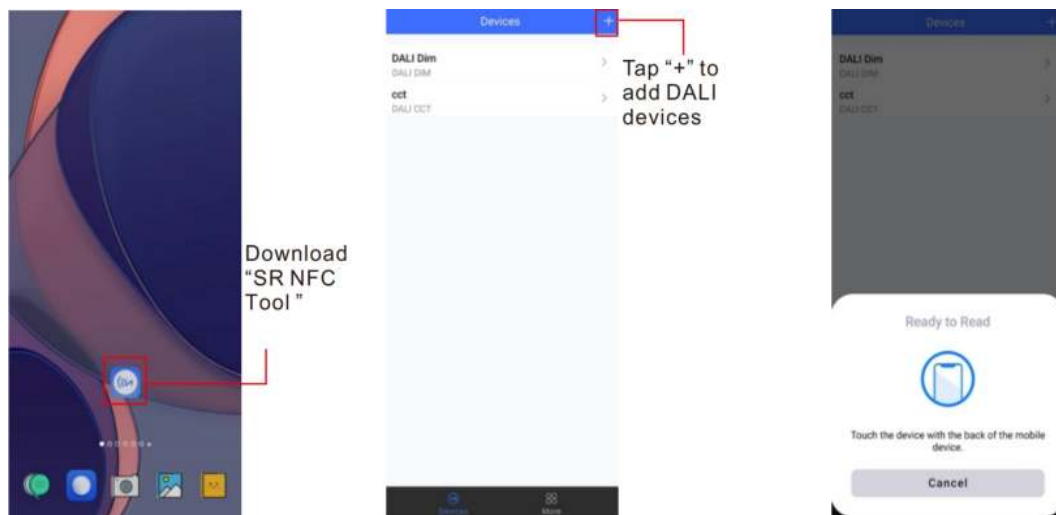| Module Number	Ipeak	Twidth	Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-36CC350-1050	8.56A	88µs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80
SRP-2309N-36CCT350-1050	8.56A	88µs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80
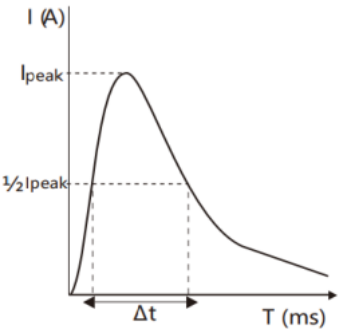
Note:

1. Those MCB parameters are based on ABB S200 series circuit breakers.

2. For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.

3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.

4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.

5.Type C MCB's are strongly recommended to use with LED lighting

Step 1: Download the APP (searching <u>"SR NFC Tool"</u> from App Store and Google Play) . Open APP.

Download "SR NFC Tool "

Tap "+" to add DALI devices

Ready to Read

Touch the device with the back of the mobile device.

Cancel

Step 2: Add device, and name it as you wish.

Add configuration

configuration name

Cancel   Save

Successful

Apple QR Code:

Android QR Code:

Step 3: Unlock device, enter parameters configuring page.

Device Type	DALI DIM
Product Id	0x01000001
Target current	300.0mA

Locked

Device Type	DALI DIM
Product Id	0x01000001
Options	>
Target current	300.0mA >

Unlock it

Options

- Max level / Min level
- Power on level / System failure level
- Short address / Groups
- Fade time / Fade rate
- Dimming curve
- Scenes
- Target current
- Low side current error compensation

Set All Attributes
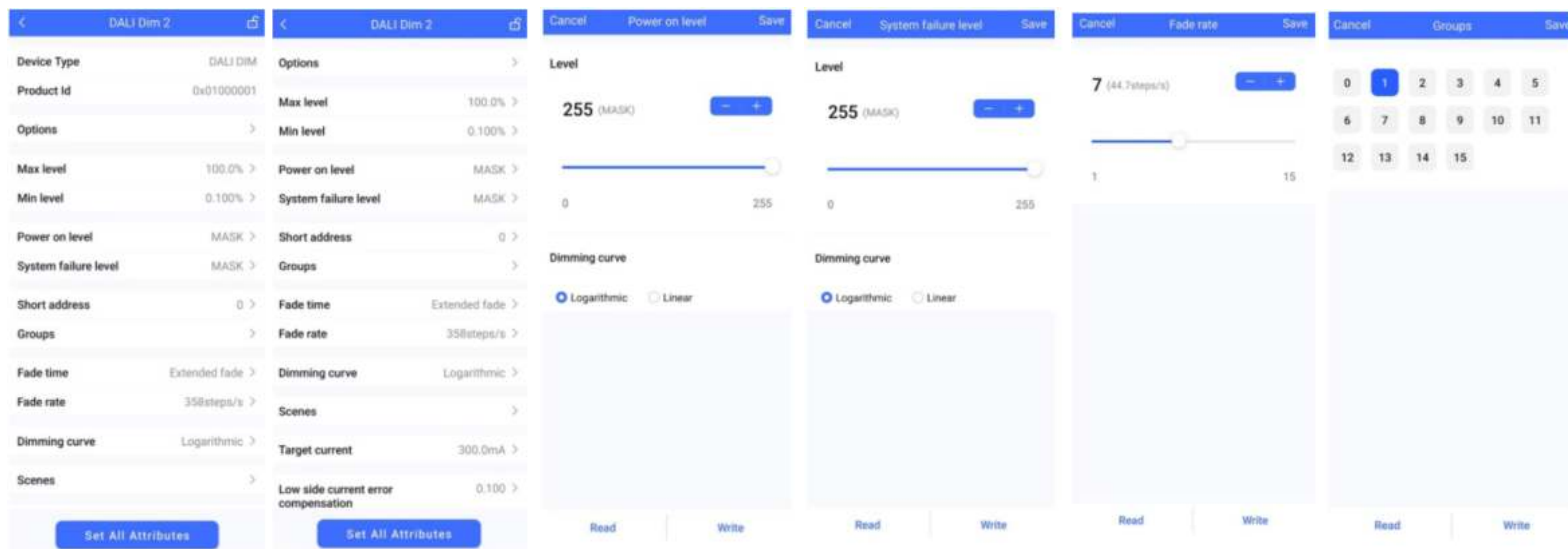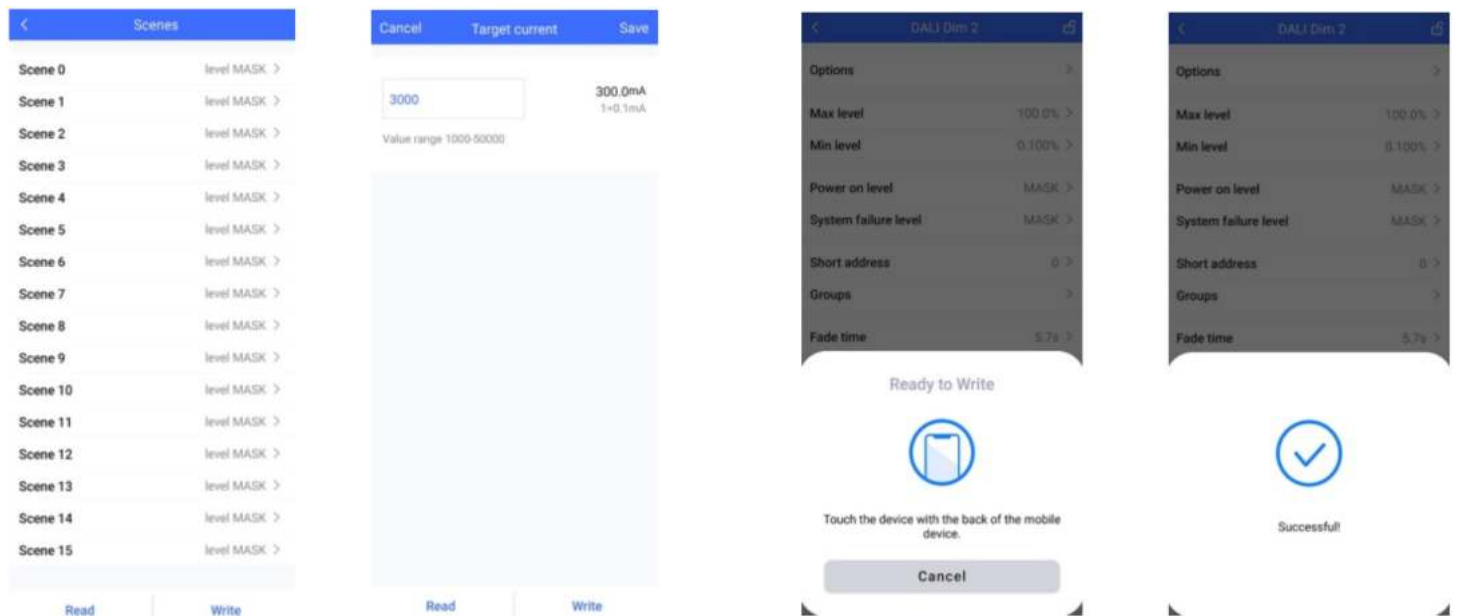
Unselect All   Select All

Notes:

1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

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Step 4: Few parameter interface, you can choose the setting based on your requirements.

Step 5: After setting, please save the selected configuration via NFC and power on the device
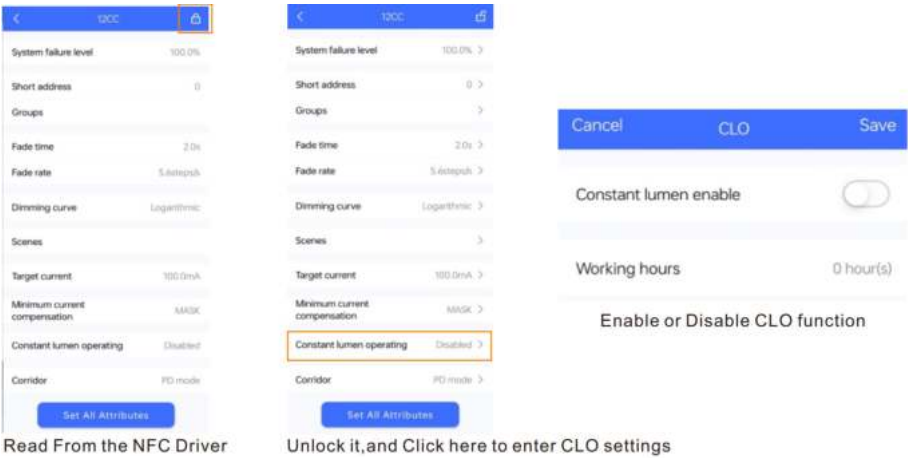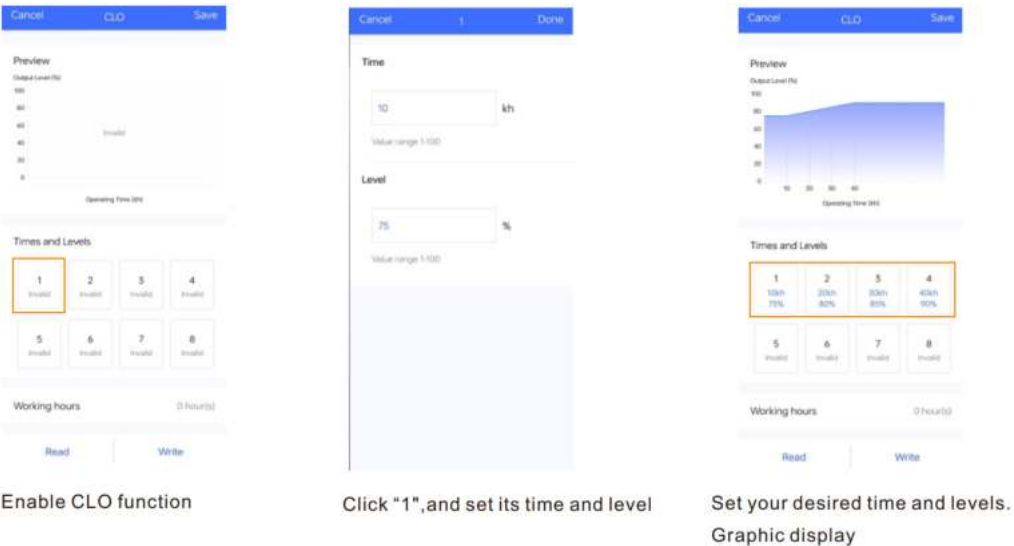
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CLO and Corridor DIM(CD) Function Instruction

Step 1: Open APP, and Find the CLO/CD functions

Read From the NFC Driver   Unlock it,and Click here to enter CLO settings

Constant lumen enable

Working hours   0 hour(s)

Enable or Disable CLO function

Step 2: Enter CLO Setting homepage

Enable CLO function

Click "1",and set its time and level

Set your desired time and levels.
Graphic display

Note:

1. Working hours : Ability to calculate the working hours of a single driver

Step 3: Corridor dim(CD) function

Read From the NFC Driver   Unlock it,and Click here to enter Corridor mode

Mode

CD   PD

PD: PUSH DIM
CD: Corridor DIM

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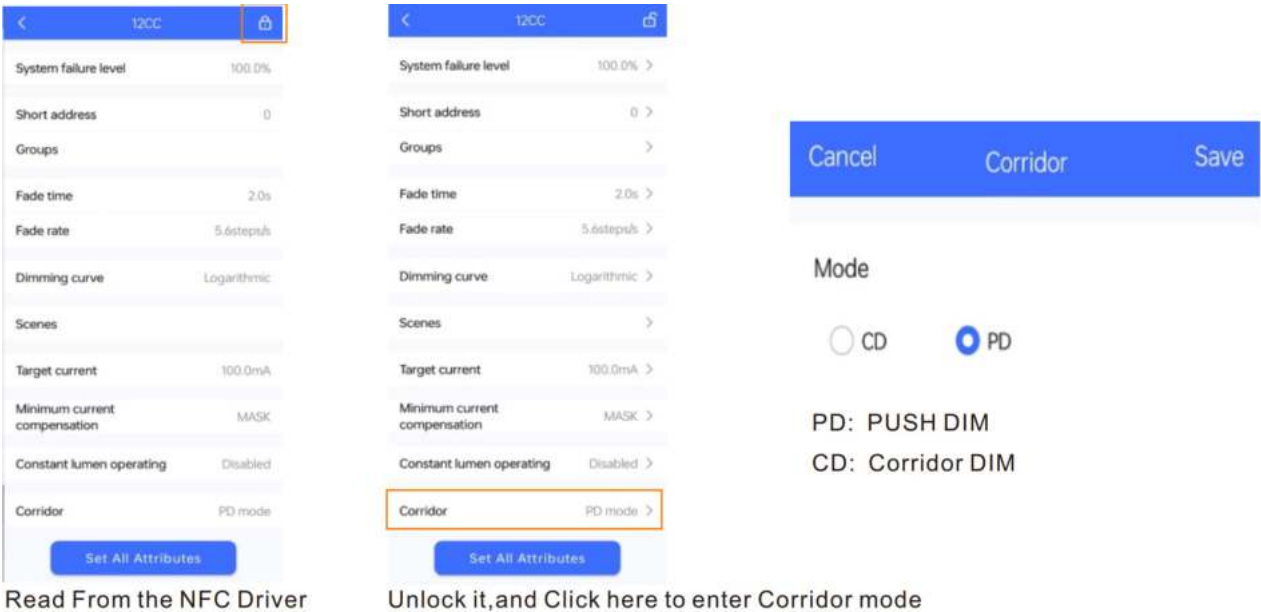
Step 4: Enter CD Setting homepage

Notes:

1. You should select either CD mode or PD mode, but not both.
2. Under CD mode, you can realize it with normal (3rd party) AC sensor.

Additional Information

1. Please make sure your APP version is 1.0.10 or higher.

2. Please make sure NFC driver's firmware is available with CLO / CD functions